

A fractal approach to industry sector analysis

Fig. 1 Sector Analysis

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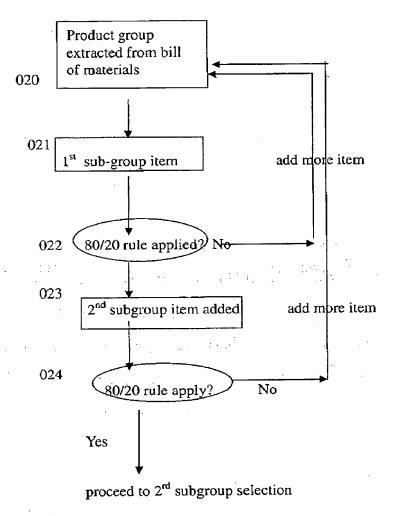


Fig. 2- Application of Pareto's Distribution Law

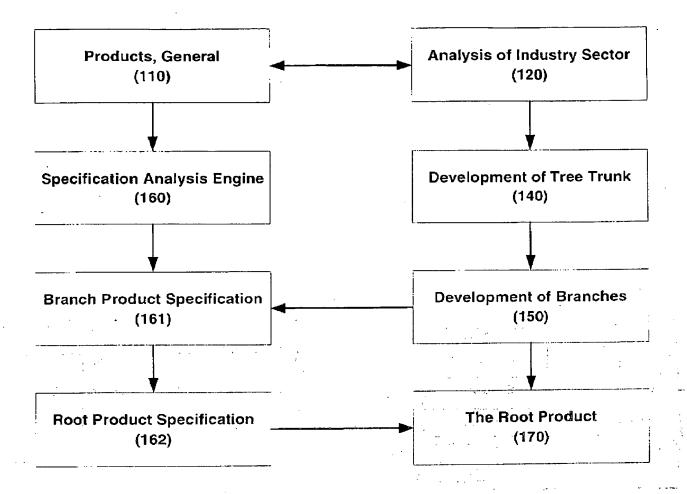


Fig 3: Root Extraction Process 300

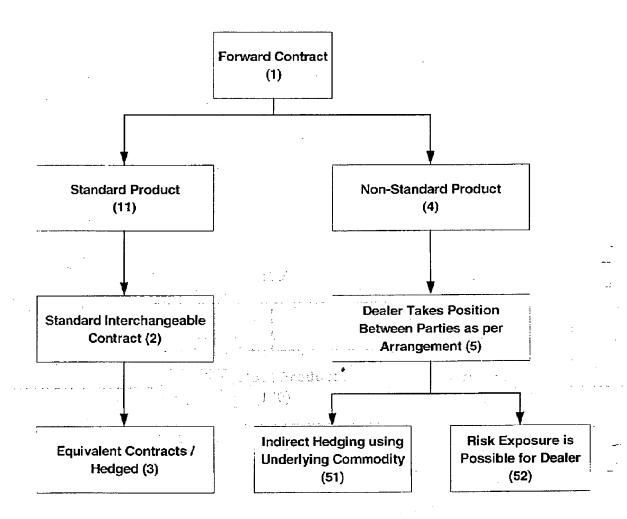


Fig 4: Existing Forwards Platform 100

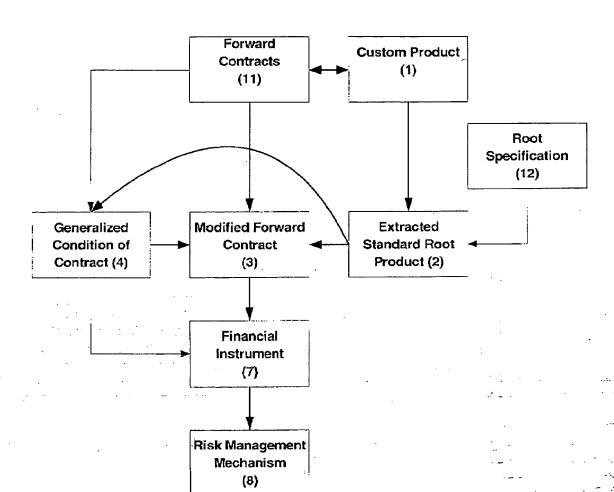


Fig 5: New Platform 200

Item 1		a) Name (any)
	Product as defined	b) Description (any)
		c) Unit (no, pounds, ton, gallon, ounce)
		d) lot size(10,100,200, 500, 1000,10000,20000, 50000)
		e) code (any)
Item 2	Delivery Frequency	a) date: 30 day, 60 day, 90 day
		b) date: calendar months
		c) notice dates: T-x1, T-x2
Item 3	Trading Rules	a) marketplace (hybrid, futures, spot)
		b) all months
	,	c) hours (8am-2pm EST), (9am-3pm PST), (11am-5pm
		GMT), (9am-3pm pacific)
		d) week begins (Sunday, Monday)
		e) week ends (Friday)
Item-	Pricing Mechanism	a) minimum fluctuation (1/100.1/20, 1/10 of currency)
4		b) daily limit (percentage of nominal contract value;5%,
		6%,7%,8%,9%,10%),
		c) currency (usd, usd & euro, usd & JPY, usd & local
		currency)
Item-	Financial Clearing	via Fiduciary account residing at commercial bank
5		<del></del> ;
Item-	Settlement Procedure	a) cash offset following financial clearing
6		b) physical delivery made against cash payment
	<u> </u>	<u></u>

Fig.6 Flexible Semi-Standard Contract

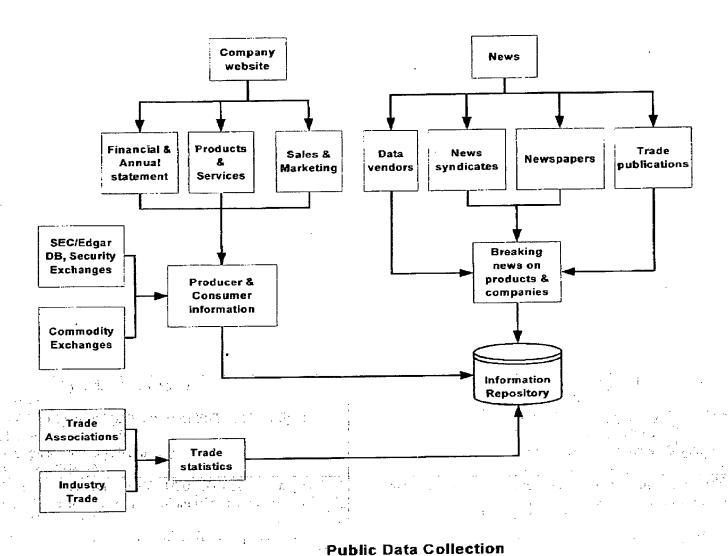
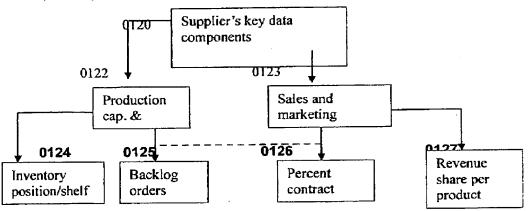


Fig 7 Marketing information: A collection of market data as well as relevant news

p.17

### a) News providing supply data:



## b) News providing demand data:

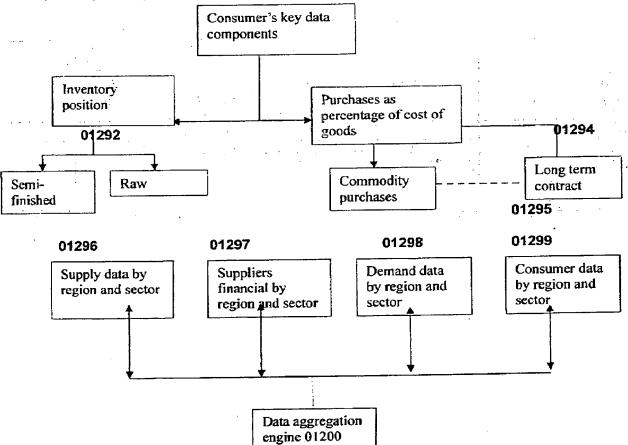
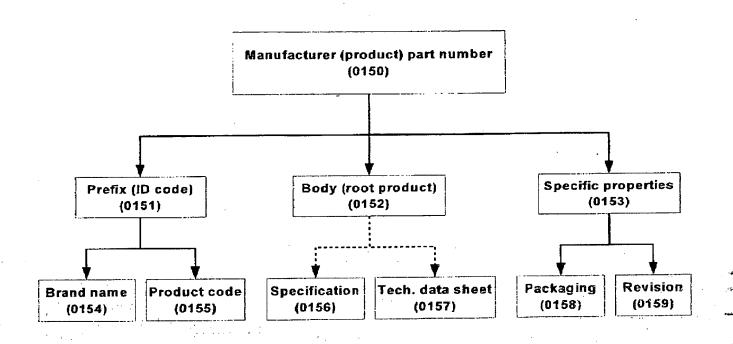
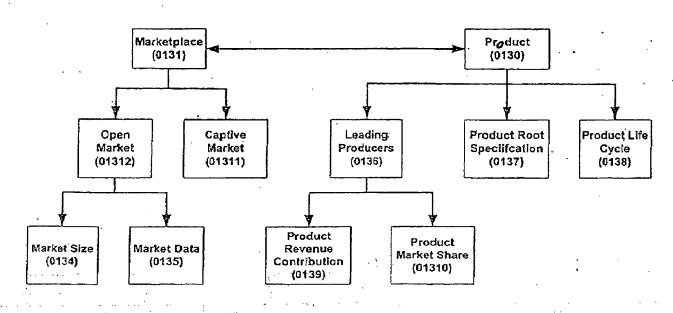


Fig 8- Supply & Demand data are collected in a database



Breakdown of part number - industry standard

Fig. 9 Manufacturer part number: A guide to technical specification



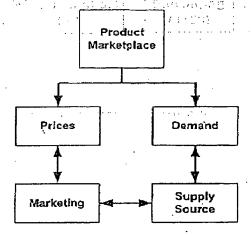


Fig. 10 Combining technical and marketing data

Information	Primary	Secondary	Fee-based
	source	source	services
Product line	Company's	Distributors	
·	website	website	
Key	Company's	suppliers	Market
products	financial	websites	researchers
Product	Company's	Trade	Market
market share	report	associations	researchers
Product	Open market	Supplier	Daily survey
prices	_	website	

TABLE 11- Sources of Data collection

Industry sector	public companies	Market size in 1000	Sub-Sector targeted	Average growth rate	Average Volatility
Electronics	800	450,000,000	Semicon	15%	50%
Chemical	300	350,000,000	plastics	8%	10%
Electrical	56	320,000,000	wholesale	4%	15%

Table 12- Example of aggregate marketing data

company	Last quarter/ projected sales	Global market share, 2001	Product 1	Product 2	Cost of sales	International sales
Micron	\$700 million	18.00%	memories	-	80%	400,000
Dell	\$8.5 billion	<10%	memories	interconnect	35%	2,000,000

Table. 13- Example of producer and consumer of same product

p.21

Replacement Drawing

# 1. FOR EACH SECTOR

Industry	Public	Market size	Average	Average
	companies		growth rate	volatility

## 2. FOR EACH PRODUCER/CONSUMER ENTITY

Entity	Last reported	Last reported	% commodity
. *	revenue	cost of sales	related market
			share

Entity	Commodity I, % of revenue	 Commodity 3, % of revenue
	1 70 3 10 15 11 11	

Entity	Currency 1, % of	Currency 2, % of	Currency 3, % of
	 transaction	transaction	transaction

# 3. FOR EACH PRODUCT

Product	Product	Spot closing		Spot closing
description	symbol	in USD	in Jyen	in Euro

Product	_	· .	90 day forward
description		closing price	closing price

Product	Product symbol	Total available	Relative market
description			strength

Tables 14- The Database